Eclipsis Solaris GEDANI.

Anno 1666 Die 2 Iulii. s. n. ante m. obſervata.

à Johanne *Hevelio.*

A A

Oriens

Occidens
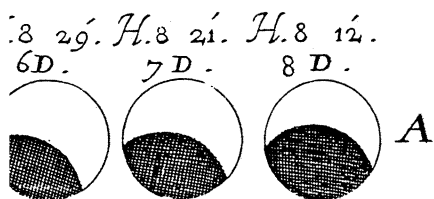
Initium Occidens

Digiti

C

Phaſes Creſcentes

Hor. 8. 2ˊ.	H. 7. 49.	H. 7. 41.	H. 7. 34.	H. 7. 27.	H. 7. 21.	H. 7. 15.
8 Dig. 25	8 D.	7 D.	6 D.	5 D.	4 D.	3 D.

A

Phaſes Decreſcentes.

Hor. 9. 9ˊ.	H. 9. 2½.	H. 8. 57.	H. 8. 50.	H. 8. 43.	H. 8. 36.	H. 8. 29.
Finis.	1 D.	2 D.	3 D.	4 D.	5 D.	6 D.

A
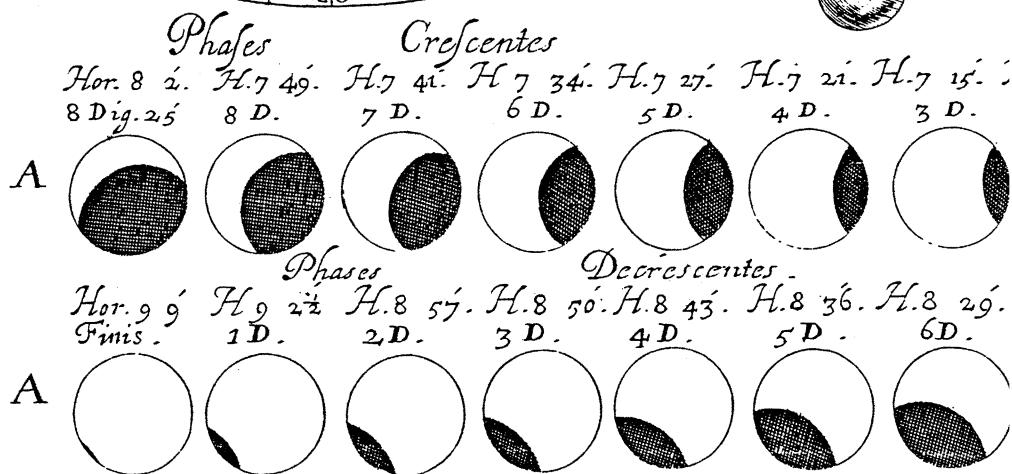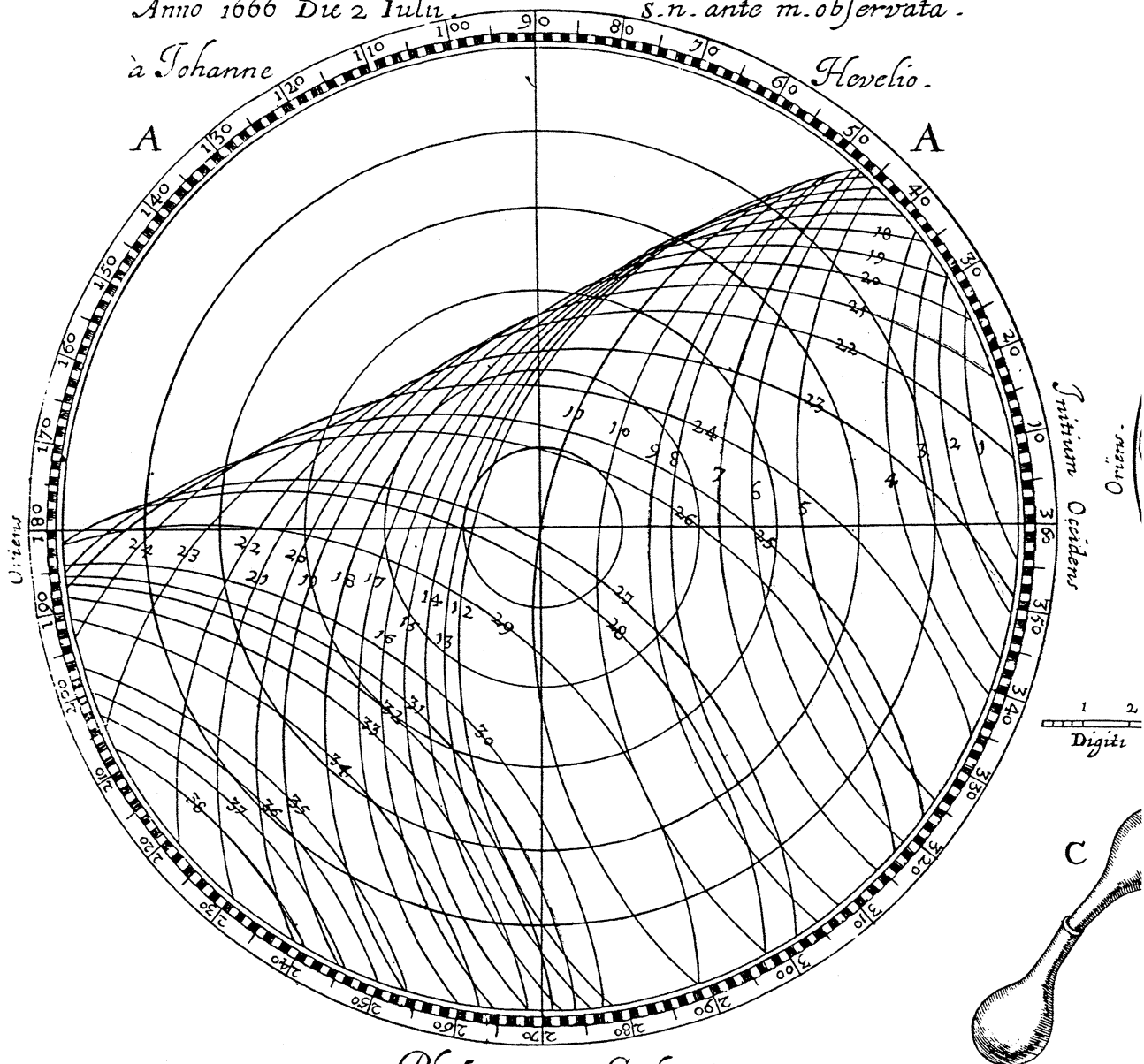
Eclipsis Lunæ observata
GEDANI,
Anno 1666. Die ☿ 16 Iunii, St. n.
à Iohanne Hevelio.
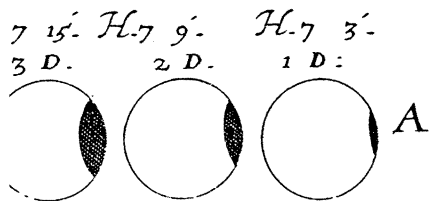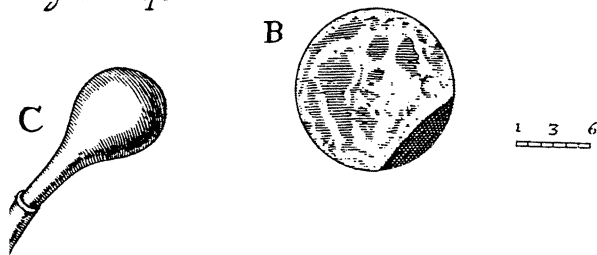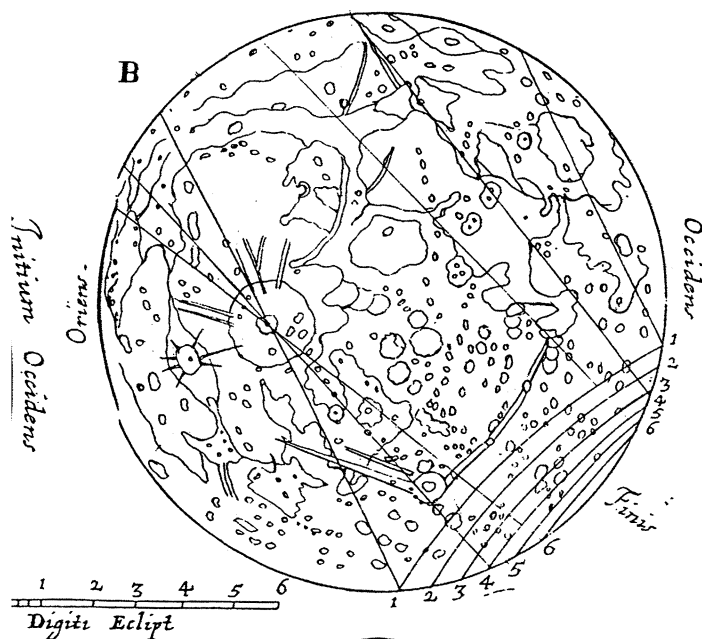
B

Initium Occidens

Oriens

Occidens

Finis

1 2 3 4 5 6

Digiti Eclipt

B

C

1 3 6

7 15'. H. 7 9'.   H. 7 3'.
3 D.   2 D.   1 D:

A

8 29'. H. 8 21'. H. 8 12'.
6 D.   7 D.   8 D.

A

PHILOSOPHICAL
TRANSACTIONS.

The Contents.

Monsieur *Hevelius*'s Calculation of the late *Solar*
Eclipse's Quantity, Duration, &c.

THis *Calculus* was not long since communicated by Monsieur
Hevelius in a Letter to the *Publisher,* as follows,

Eclipfis Solaris.

Obfervata An. 1666. D. 2. Julii, St. N. Mane, à Johanne Hevelio.

Ordo Phafium	Quantitas Phafium.	Temp. altin fec. horol ambulat.	Temp ex Sciother.	Altitude ☉	Tempus correct.	Animadvertenda.
		H. , ,,	H. , ,,	o. ,	H. , ,,	
		5.51.11	5.51. 0	17.45	5.53.12	Quòd Sciatericum cum cor-
		5.57. 5	5.57. 0	18.37	5.59.28	recto tempore non omninò convenit, non-nifi Lineæ Me-
		6. 0. 0	6. 0. 0	18.55	6. 1.28	cidianæ imputandum.
	Initium.	6.55.30			6 57.30	Initium circa 79 gr: à puncto
1	0 3/x dig.	6.57.30			5.59.30	Zenith occafum verfus conti- git.
2	0 3/4	7 0.23	7. 0. 0		7. 2.23	
3	1 1/x	7. 2.30	7. 2. 0		7. 4.30	
4	1 1/2 dig.	7. 4.50	7. 5 ferè.		7. 6.50	
5	1 3/x ferè.	7.10.57	7.10		7.12.57	
6	3 3/x	7.14.59	7.15		7.16.59	
7	3 3/4	7.17.50	7.18 ferè.		7.19.50	
8	4 3/x dig.	7.21.35	7.21		7.23.35	
9	4 3/x	7.23.43	7.23 ferè.		7.25.43	
10	5 1/4	7.27.53	7.28		7.29.53	Hujufque Semi diameter Lunæ
11	6	7.31.50	7.32		7.33.50	æqualis extitit Solari.
12	6 3/4	7.36.55	7.37		7.38.55	
13	6 7/x paul. plus.	7.38. 5	7.38		7.40. 0	
14	7 1/x	7.39.45	7.39		7 41.45	
15	7 1/x paul. plus.	7.42.30	7.42		7.44.30	
16	7 1/x	7.44. 6	7.44		7.46 6	
17	7 1/x	7.46. 0	7.46		7.48. 0	
18	8 ferè.	7.48.25	7.48 erè.		7. 50.25	
19	8 1/x	7.51.15	7.51		7.53.15	
20	8 1/4 paul. plus.	7.53.37	7.52		7.55.37	
21	8 1/x	7.55.45	7.56 erè.		7 57.45	
22	8 3/x paul. min	7.59. 5	7.59		8. 1. 5	Maxima obfcuratio extitit
23	8 1/x	8. 6.30	8. 6		8. 8.30	digit. 8. 2/ hora 8. 2'.

Ordo

Ordr Pha- ſiuɔ	Quantitas Phaſium.	Temp. æſtim. ſec. horol. amhulat.	Temp. ex ſciother.	Altitud. ☉	Tempus correĉt.	Animadvertenda.
		H. , "	H. ,	o.	H. , "	
24	7 3/4	8.11.25	8.12		8.13.25	Hic Semidiameter *Lunæ* ad
25	7 1/4 ferè.	8.17.30	8.18		8.19.30	8ᵈ vel 9ᵈ major apparuit. ✶
26	7 fere.	8.19.41	8.19		8.21.41	✶ See *Numb.* 19. *of the Philo-ſophical Tranſactions*, p. 347.
27	5 7/8	8.28. 8	8.28		8.30. 8	
28	5 1/2 fere.	8 30 14	8.30		8.32.14	
29	4 3/4	8 36 25	8.36		8.38.25	
30	3 5/8	8 43 19	8.43		8.45.19	
31	3 1/4	8 46 12	8.46 ſerè.		8.48.12	
32	3	8.47.32	8.47		8.29.32	
33	2 3/4	8.50.57	8.50		8 .2.57	
34	2 1/2 fere.	8.54.15	8.54		8.56.15	
35	1 3/8	8.58.24	8.58		9. 0.24	
36	1 1/7	8.59.35	8.59		9. 1.35	
37	0 5/6	9. 1.38	9. 1		9. 3.38	
38	0 1/2	9. 3.20	9. 3		9. 5.20	
39	*Finis.*	9. 6.53	9. 6	Altir.☉	9. 8.53	Punĉtum finis diſtitit à vɛɛ-ticali ad Ortum 143 ɡr.
		9.23. 6		47.33	9.25.28	
		9.24.16		47.42	9.26.45	
		9.28.29		48.10	9.30.42	
		9.30.36		48.28	9.33.12	

This Obſervation is by the ſame *Aſtronomer*, repreſented alſo by the *Figures AAAAAA* ; as that of the *Horizontal Eclipſe* of the *Moon*, is, by the *Figures BB.*
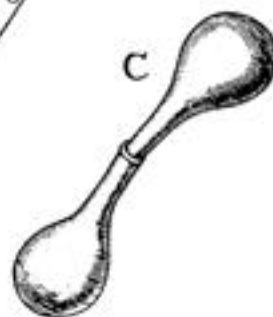
The

Eclipsis Solaris GEDANI.
Anno 1666 Die 2 Iulii. S.n. ante m. observata.
à Iohanne Hevelio.

Eclipsis Lunæ obseruata GEDANI.
Anno 1666. Die ☿ 16 Iunii. St. n.
à Iohanne Hevelio.

A   A
B
Oriens   Occidens
Initium   Occidens
Finis

Digiti Eclipt.

B

C

Phases Crescentes
Hor. 8 2.   H. 7 49.   H. 7 41.   H. 7 34.   H. 7 27.   H. 7 21.   H. 7 15.   H. 7 9.   H. 7 3.
8 Dig. 25   8 D.   7 D.   6 D.   5 D.   4 D.   3 D.   2 D.   1 D.
A   A

Phases Decrescentes.
Hor. 9 9.   H. 9 2¼.   H. 8 57.   H. 8 50.   H. 8 43.   H. 8 36.   H. 8 29.   H. 8 21.   H. 8 14.
Finis.   1 D.   2 D.   3 D.   4 D.   5 D.   6 D.   7 D.   8 D.
A   A